PolyVisions Inc

25 Devco Drive
Manchester, PA 17345
717-266-3031 (phone)
717-266-3032 (fax)

DuraPET ™ 1076 PCR ST

Product Description

DuraPET ULTRA™1076 PCR ST is a modified PET material that demonstrates extreme high impact, extremely low notch sensitivity, wear characteristics. and excellent chemical resistance. It is a highly durable material that can withstand outdoor environmental conditions It is a highly durable material that can withstand outdoor environmental conditions. It exhibits ductile failure as low as - 40°C.

General

Material Status:	**PRELIMINARY**
Availability:	Globally
Features:	Low Crystallinity/Extreme High Toughness
Uses:	Multiple
Processing Method:	Injection Molding, Extrusion, Thermoforming, Blown Film

ASTM & ISO Properties

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.29	g/cc	ISO 1183
Molding Shrinkage	0.60	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	330,000	psi	ASTM D638
Tensile Strength	7200	psi	ASTM D638
Flexural Modulus	330,000	psi	ASTM D790
Elongation @ Break	300	%	ASTM D638
HDT 1.82 MPa	65	°C	ASTM D648
Impact	**Nominal Value**	**Unit**	**Test Method**
Gardner Impact (23°C)	>500	in-lb	ASTM D5420
Gardner Impact (- 20°C)	>290	in-lb	ASTM D5420
Notched Izod (23°C)	10	Ft-lb/in	ASTM D256
Rheological	**Nominal Value**	**Unit**	**Test Method**
Melt Flow Rate (285°C, 2.16 Kg)	12	g/10 min	ASTM D1238